

1 area and a number of other factors. And I think some
2 kind of formula like that makes sense as we look at
3 how do we measure affordability and make sure
4 that we're not excluding school districts that just
5 plain could not afford even a discount rate otherwise.
6 The other major issue as we look at competition, and I
7 am sure again most of you are well aware of this, that
8 lack of competition is still a major problem in many
9 of our areas, especially rural and remote areas, and
10 so how do we incent competition or in some other way
11 encourage that as we look at making it truly
12 affordable.

13 Also been involved with the K-20 process
14 here in this state. Had a chance to hear from Dave
15 Danner earlier today. This will help during the
16 coming year in establishing better infrastructure for
17 both higher education and the K-12 system as a whole.
18 It is just beginning to be defined how that will reach
19 school districts, but again, it does not in its
20 funding source address the issue of ongoing costs so
21 that this process of FCC work will be a major help as
22 they look at how do they address the issue of ongoing
23 costs through the years. While we would love to see
24 free, that's a nice theory, in practice my sense is
25 that's probably going to lead to unacceptable impact

1 on residential rates, and so we feel working on a
2 discount with a flexibility for true need is probably
3 a better approach with possibly the idea of a
4 scholarship for a school district that truly could not
5 afford anything and that would have to be a case by
6 case. We find when school districts have some volume
7 of buying, that is, they're putting out money for it,
8 they tend to make better use of the resources. So
9 from that perspective as well I think that's a
10 reasonable approach. One of our recent grant
11 competitions we required of the school district to get
12 technology money a local match on things like staff
13 development and some of the other issues that people
14 have identified here today as being key components in
15 making sure that the resource is used wisely and
16 really improves learning for kids, which is really
17 what we're after in the final analysis.

18 As we look at the total funding picture I
19 think it's important that we see this as kind of a
20 piece of the puzzle, that the work that you're doing
21 along with local buying, bonds, levies, planning,
22 state support, federal support, as they try to make
23 alignment of the different postures that they have
24 going, grants, business associations, partnerships all
25 are going to have to play a role, that we can't look

1 to any one funding source to solve all the issues but
2 each one of those need to be aligned to bring the best
3 possible impact on education. With that if you have
4 questions I would be glad to take them.

5 CHAIRMAN NELSON: Thank you for waiting all
6 afternoon. Mr. Mitchell mentioned the FTS 2000
7 problems. Do you have any knowledge?

8 MR. SMALL: Quite honestly, I've got a note
9 to look that up as well.

10 CHAIRMAN NELSON: I would really be
11 interested to find out if state and local and tribal
12 governments are going to have access to them.

13 MR. SMALL: I would be fascinated.

14 CHAIRMAN NELSON: I would appreciate your
15 immediate feedback if you can.

16 MR. SMALL: Sure, you bet.

17 CHAIRMAN NELSON: Does the superintendent's
18 office have a view on whether it should be labs or
19 classrooms? Is there a standard for Washington
20 schools or --

21 MR. SMALL: What we see, and this again
22 flows from the fact that it's a low control state, is
23 that there's a real mixed up approach there, and a lot
24 of that needs to be approached from a local planning
25 issue in terms of what subject areas, what kinds of

1 usage. What we do see is that best practices tend to
2 be either four to six network computers per classroom
3 or a number of network labs that have easy access so
4 that you don't have to wait in line to get access to
5 them and in some cases a mixture of both, and again it
6 varies by the subject area and by the teaching
7 approach. Makes more sense that way, so there's not
8 a one-size-fits-all but certainly the idea wherever
9 they are they ought to be networked and access to
10 resources outside the school as well.

11 CHAIRMAN NELSON: A friend who works in a
12 fairly large Washington headquartered corporation
13 indicated to me the corporation has concerns about
14 obsolescence and the rapidity with which work stations
15 have to be replaced for all employees. How do we deal
16 with that in the educational environment? We had
17 references made earlier today that kids were being
18 trained in materials that no corporation uses any
19 longer?

20 MR. SMALL: I think that's a real concern
21 that we share as well. Really is a twofold approach.
22 One of them is looking at creative ways of financing.
23 Some districts are actually exploring the idea of
24 leases so that they could actually turn over outdated
25 equipment, at least at some value, and move on to

1 other equipment. The other is an educational process
2 for the districts themselves, for the local community,
3 that even once you've done a bond or a levy that's not
4 one time for every bond and there it is, and same
5 thing with our state legislators to help them
6 understand that there is an ongoing nature to it and
7 that we need to look at the total picture of resources
8 so that if we're going to need to put more money can
9 we look at the full picture of what constitutes
10 educational materials to make sure it's broad enough
11 for equipment as well as textbooks.

12 COMMISSIONER GILLIS: Mr. Berg raised the
13 issues of teachers need to become proficient in
14 information technologies. Could you comment on that
15 and how you think it --

16 MR. SMALL: Certainly as we look at what's
17 been suggested in Washington state, and in the use of
18 technology and telecommunications in the classroom, in
19 the nation, what we see is kind of benchmarks for
20 success. One of them is vision and language for
21 technology at a level and another piece is the staff
22 development and we've seen a variety of kind of
23 creative approaches to that. There are student
24 learning improvement grant dollars available from the
25 state. I know in our latest competitive grant that a

1 lot of the districts specifically targeted those for
2 learning how to use the technology wisely in the
3 classroom as their matching funds, if you will, for
4 that kind of approach. But it is an ongoing issue and
5 we see everything from, say, in the Olympia School
6 District where kids are trainers for teachers, which
7 is kind of turning everything on its head, and takes a
8 look (inaudible) for the staff to other places where
9 there are mentor teachers freed up to have time to do
10 that and, quite honestly, it's more giving at the due
11 and thinking about it than it is a specific approach
12 that always works one way or another.

13 JUDGE FFITCH: Thank you very much. That
14 concludes the sign-up speakers. We're getting late in
15 the day and nearly time to adjourn. Is there anyone
16 else who wished to speak? If you would like to step
17 foward, please, yes, sir. Introduce yourself.

18 MR. SCHAUDIES: Afternoon. My name is Sid
19 Schaudies and I am a high school teacher at Rainier
20 Beach High School.

21 JUDGE FFITCH: Could you spell your last
22 name for the record?

23 MR. SCHAUDIES: S C H A U D I E S. It's a
24 high school in the southern part of the Seattle school
25 district which has high diversity and, well, you might

1 say, we're diversity rich and technology poor. I've
2 been there for about five years and what I've noticed
3 is in that environment it seems to come down to a
4 matter of access. Not just access to the hardware but
5 also to ideas and concepts and information that
6 otherwise might not be available without the tools,
7 and this is what I can see happening in the next
8 couple of years. Our school doesn't have much. Our
9 teachers don't know much themselves. The students
10 currently know they're coming on, but in about four
11 years we're going to start receiving students who are
12 already technology literate, and they're going to come
13 knocking at our doors and say, okay, I'm here, where
14 is my machine? Where are my tools? You want me to do
15 something and we're going to say we don't have any.
16 They're not there. And even if they were we don't
17 know how to use them.

18 So, something is going to happen here in
19 about four or five years like that. I think the
20 students are going to vote with their feet and once
21 again we'll be left out. We'll be left with the ones
22 that aren't motivated in those areas. At Rainier
23 Beach High School I'm also the director for the
24 teaching academy. Well, I should say the academy
25 for the teaching professions and educational

1 technology. My -- the purpose of the teaching academy
2 is to identify and prepare students who would be
3 interested in becoming teachers and returning to the
4 community once they finish their education thereby
5 providing a pathway for those of their ethnic
6 background. Our partners are Boeing and the
7 University of Washington school of education and the
8 Seattle School District. Well, my job is today to
9 teach the students the tools they are going to be
10 using in five or six years when they become teachers
11 themselves and return to our school to be employed by
12 our school district to teach the students that they
13 left, which is -- that's the ideal. But I don't have
14 the tools. The school doesn't have the hardware, but
15 thanks to the connected learning community idea
16 Microsoft put in at the Seattle Public Library Rainier
17 Beach branch, about ten units, and so last year in a
18 pilot project we had ESL students going over and just
19 become aware of what is available, making home pages.
20 Just getting to know the machines. Becoming familiar
21 with them and finding out what could be available.
22 This year my teaching academy students are learning
23 the tools. The idea is that I am going to teach them
24 the tools that they are going to be using as teachers.
25 Then they go out into our school and teach our

1 students, their peers, what to do and then they, those
2 students will teach -- the teachers will teach the
3 teachers who don't know and who are willing and able.
4 For those that aren't willing or able we'll just have
5 to wait for them to leave. That's about it. It's a
6 generational thing. Some folks quit learning.

7 I mean, they're doing the same thing
8 they've been doing for 20 years, teaching the way
9 they're taught. It's a whole new way of teaching.
10 I'm talking about distributed education. I'm talking
11 about schools without walls. I'm talking about cyber
12 schools. Total emersion interactive environments.
13 Well, we can't have those if we don't have people who
14 can make them, and this is where we make them in this
15 region. I want to provide the teachers, the trainers,
16 the instructors that will be able to go use it -- go
17 into our community, in our environment, through the
18 community colleges and into the region to support
19 those communities, well, the manufacturing
20 communities.

21 The Northwest Center for Emerging
22 Technologies is one area that I am working with.
23 We're connecting with Issaquah High School who is
24 technology rich, diversity poor. They know the
25 technology but they can't get the money because they

1 don't have the minorities. They don't have the
2 diversity. We, on the other hand, we don't have the
3 technology but we have the diversity so we have the
4 wealth of our diversity and they have the wealth of
5 their technology and we're going to marry them
6 together for our mutual benefit both for the students
7 and for the community through the Northwest Center for
8 Emerging Technologies.

9 There's also some discussion of trying to
10 get the T1 line from the Seattle Public Library
11 directly over to the high school which is only a block
12 away, block and a half away. That can be done. But
13 more importantly what might happen is that our school
14 has channel one. Perhaps you've heard of it. It's
15 that commercial television station that got into
16 houses of high school students in the United States
17 with some controversy about having students who are a
18 captive audience. Well, I thought our high school
19 didn't have a network and I've been pushing one for
20 four years, hard wire network, fiberoptics and all of
21 these great things until I realized that we do have a
22 network. We have the hardware. We've got the
23 infrastructure. It's our cables. Our cable system
24 going right into the schools. All we have to do with
25 the new technology of the modems, the cable modems,

1 unplug them from our TVs, plug them into our
2 computers, then I can teach the multi-media skills.
3 I can teach students how to build an educational
4 environment. Then I can offer a distance curriculum
5 to other schools in the district where the students
6 learn the tools, teach other students and teach
7 teachers who are willing and able and wait for the
8 rest to leave. That's it. That's the story.

9 JUDGE FFITCH: Questions?

10 CHAIRMAN NELSON: Channel one provides the
11 cable system or did the cable system provide it?

12 MR. SCHAUDIES: My understanding is channel
13 one did. They brought in televisions and the
14 infrastructure and -- well, that's it.

15 CHAIRMAN NELSON: We had a representative
16 of Seattle Public Library here this morning and he did
17 get the T1 circuit from the High Point Community
18 Center somehow extended to the West Seattle High
19 School so I am sure you will be able to do that too.

20 MR. SCHAUDIES: Well, I worked with
21 Willem. When we opened it up it was on Leap Year Day
22 in February. It was the 29th and it was really
23 interesting because, gosh, it was like Christmas.
24 They were lined up at the doors and ready to go. So
25 it's exciting but, just the same, that's not in our

1 building, and the vision I'm giving of cyber is not
2 interactive cyber world, it may not be so far down the
3 road, but we certainly can do it. We need the tools
4 and that's why I say it's access. It's not just
5 physical access. It's conceptual access and access as
6 far as technologies are concerned, these technologies
7 seem to be reflected by the associated economic
8 status. That's it. If you don't have the bucks you
9 don't get the stuff.

10 CHAIRMAN NELSON: Thanks.

11 JUDGE FFITCH: Thank you very much. We're
12 going to conclude the hearing at this time. One other
13 I'm sorry.

14 MR. VITZTHUM: Rick Vitzthum. I'm with
15 Kalama-Tenino Telephone and I apologize for dragging
16 this out but I also know the Bellevue traffic so a few
17 more minutes isn't probably going to make a
18 difference.

19 JUDGE FFITCH: It's V I T Z T H U M?

20 MR. VITZTHUM: Correct. Kalama and Tenino.
21 Well, Tenino is outside of Olympia. Kalama is down in
22 southwestern Washington. We operate through small
23 rural areas. We're currently an Internet access
24 provider and our two-way radius is in the adjacent
25 territories of Longview and Olympia. We are providing

1 discounts to educators. We have worked very closely
2 with our school districts to try to provide them
3 access to the Internet. We provide both dial-up
4 service and high speed access. As far as most of the
5 educators are concerned they're interested more in
6 dial-up because the networks within our schools don't
7 have the capacity at this point for high speed.

8 I get a little concerned in what I've heard
9 today in the fact of high speed networks, all the
10 examples that have been cited have been big
11 communities, Seattle, Tacoma, Spokane, Vancouver. I
12 didn't hear a Woodland where I live or a Kalama as an
13 example of where high speed network is going in, and
14 while I don't necessarily believe that high speed
15 networks correlate to education, which I think is the
16 purpose behind all of this, the idea of universal
17 service, of not creating information centers and
18 have-nots, seems to me that some sort of special
19 attention should be paid to the smaller rural
20 communities, and along with that is this training,
21 which I've heard quite a bit of that, put the
22 technology out there, that it's not going to be
23 necessarily used. When we talked with the schools
24 about doing high speed transport, they just didn't
25 have the equipment available or the people available

1 to take advantage of that technology.

2 So if we're going to do something in the
3 rural community I think it is very important that not
4 only we train the teachers but provide them also the
5 access to the designers that can design the larger
6 picture networks, that can design the high speed
7 access that they really don't have access to at this
8 point.

9 In response to one of the questions that
10 Commissioner Nelson asked, in Kalama where the school
11 couldn't afford to put in a computer lab they did a
12 partnership with one of the local businesses in town
13 where the local business came in and basically
14 outfitted the computer lab for the school in exchange
15 for which the business is allowed to use that lab in
16 the evening to train its employees so that the
17 employees can be up to date on the latest equipment,
18 the latest software, but also the school district gets
19 the benefit of having that available for the high
20 school student. I think partnerships like that should
21 be further utilized and, if at all, possible, promoted
22 so that other communities can have those same
23 benefits.

24 And lastly someone else put on their hat as
25 a husband, my wife is on the Woodland library board.

1 She's co-chairman of the board. She's been very
2 active in the library and I told her I was coming up
3 and was going to listen in on this. And I said from
4 the library's perspective what's the one thing you
5 think you would need other than fixing a hole in
6 the roof. What the libraries really need is high
7 speed transport right now. In the Woodland library
8 when people go out and want to request information
9 it's all done via the post office. If you want a
10 periodical or information like that it takes a number
11 of days to get there. It's very costly because
12 they're using the postal service photocopying
13 information. They don't have the equipment or the
14 band width there to get the information back to them.
15 So from a library perspective in a small community it
16 comes back to having that band width available. Thank
17 you for allowing me to take a few more minutes of your
18 time.

19 CHAIRMAN NELSON: I would like to know, can
20 you tell me what the size of the discounts are that
21 you provide.

22 MR. VITZTHUM: Right now for Internet
23 access we provide for an educator \$90 a year, \$75 a
24 month, which is probably less than 50 percent of what
25 a normal rate is and we not only provide that within

1 our territory -- I mean within our local serving
2 territory as a telecom company but also within any of
3 the areas that we serve, so we have that in the Kelso
4 School District. We have it in the Longview School
5 District. We have it in the Kalama School District.

6 CHAIRMAN NELSON: 90 a year or 75 a month?

7 MR. VITZTHUM: 90 a year for 75 hours a
8 month.

9 CHAIRMAN NELSON: Then how long have you
10 been in the Internet access business?

11 MR. VITZTHUM: Just had our one year
12 birthday. I had hair before we started it. It's just
13 a divergence. It's very different from the telecom
14 business. I mean, most people plug in the phone, they
15 can pick it up and dial. I'm more amazed at the
16 number of people when you put them on the Internet
17 have no idea where the on/off switch is on their
18 computer and so it's been a very learning experience
19 for us.

20 CHAIRMAN NELSON: I think the example of
21 the partnering with a business is a really interesting
22 one, too, and it's another place where the act might
23 prevent such prudent partnerships and we're going to
24 have to take a look at that and appreciate your
25 testimony.

1 COMMISSIONER GILLIS: How many schools
2 within your service area take advantage of the
3 discount that you're offering?

4 MR. VITZTHUM: Actually the school itself
5 does not. It's been the individual teachers that have
6 and just recently the Kalama School District received
7 a -- they're one of 40 schools or at least the fifth
8 grade teacher was one of the 40 teachers chosen in
9 southwestern Washington to receive a technology grant,
10 and we're in the process of hooking up several
11 computers in his classroom to take advantage of our
12 discount. Most of the time it's just been teachers
13 using it in the classroom on their own machines but
14 really not having student access necessarily but we
15 are with Mr. Winnow setting up for the students.

16 COMMISSIONER GILLIS: So the discount goes
17 to the teacher?

18 MR. VITZTHUM: To the teacher or the school
19 district, either one.

20 CHAIRMAN NELSON: So if the teacher
21 encounters a recalcitrant principal the teacher
22 somehow can get through to your service?

23 MR. VITZTHUM: The teacher can get through.
24 A lot of them have computers and modems in their
25 classrooms and so they can order it there or they can

1 actually order it at home.

2 CHAIRMAN NELSON: Have they done what I did
3 when I was a teacher, they paid for that computer
4 themselves and brought it in? I didn't do that but I
5 used to bring books in and things like that.

6 MR. VITZTHUM: Actually some of them took a
7 look at the equipment they had, most of it is
8 equipment that's been assigned to them. The one
9 classroom we're setting up right now in the Kalama
10 School District was provided six brand-new Apple
11 McIntosh machines state-of-the-art and we're in the
12 process of hooking those up for them.

13 COMMISSIONER GILLIS: Each time we go to
14 these hearings, and we've been having a couple of
15 related hearings over the past six months or so, keep
16 hearing from persons like yourself that are actually
17 operating within rural areas or users in rural areas
18 and keep hearing stories that the customers,
19 institutions like schools and like libraries, are
20 already finding some access to Internet, so I would
21 ask the question how concerned should we be? Is it
22 happening out there in rural Washington or is there a
23 need for public policy to support more?

24 MR. VITZTHUM: That's a good question. I
25 guess I go back and I take a look at the diagram that

1 Mr. Bookey put up for high speed beta transport not
2 only for Internet but just for a host of other things
3 whether it be administrative video conferencing, video
4 classrooms, those sorts of things aren't happening
5 right now in rural communities, at least with the
6 people that I talk with. Internet access, I think
7 it's a way that is just continuing to move, and that
8 has now come down into a lot of the rural communities,
9 at least in southwest Washington have either through
10 EAS or through a local provider Internet access. It's
11 pretty tough not to find it now. But there are still
12 a few isolated areas but it's getting so much better,
13 but as far as going the next step beyond that for data
14 transport and the other that's still, I think, a far
15 ways away for rural communities at this point.

16 COMMISSIONER GILLIS: Within your network,
17 are you able or contemplating to offer high speed data
18 access?

19 MR. VITZTHUM: We actually offer high speed
20 data access now to several different entities within
21 our serving area. We have offered it to the schools
22 for Internet in conjunction with this technology grant
23 that they have for the fifth grade. It's just that
24 they don't have the expertise to implement high speed
25 data transport.

1 COMMISSIONER GILLIS: So expertise at the
2 user end is that what you're saying.

3 MR. VITZTHUM: Yes, exactly.

4 CHAIRMAN NELSON: It's really what we
5 were hearing last week in Spokane was wanting
6 coordinators, was how the Whitman County put it,
7 mentors, people from the user community that they can
8 trust to help them figure out what it is they want and
9 need. It's an interesting niche market, I think.
10 Designers you would call it. It's an interesting
11 concept.

12 COMMISSIONER GILLIS: Thank you.

13 JUDGE FFITCH: Thank you very much. Anyone
14 else wish to make any comment? Thank you for your
15 attendance. I will just note, as stated in the notice
16 letter that went out for this meeting, Commission is
17 also accepting written comments. Like to have those
18 if possible by September 27th. If you would like to
19 get an address you can see me after the hearing or
20 Penny Hansen who is by the table at the back door and
21 she can give you that address also. Thank you very
22 much We are adjourned.

23 (Hearing adjourned at 5:00 p.m.)

24

25

C E R T I F I C A T E

As Court Reporter, I hereby certify that
the foregoing transcript is true and
accurate and contains all the facts, matters,
and proceedings of the hearing held

on: *SEPTEMBER 23, 1996*

Cheryl McDonald

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BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION
COMMISSION

IN RE: UNIVERSAL SERVICE)
INQUIRY)
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DOCKET NO.
UT-950724

ORIGINAL

A hearing in the above matter was held
on Friday, September 27, 1996, at the hour of 1:15
p.m., at the Samuelson's Union Building, Central
Washington University, Ellensburg, Washington,
before CHAIRMAN SHARON NELSON, COMMISSIONERS
RICHARD HEMSTAD and WILLIAM GILLIS.

The parties were present as follows:

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION
STAFF, by Steven King, Assistant Attorney General,
1400 S. Evergreen Park Drive SW, Olympia,
Washington 98504-0128.

Dina Lindquist, CSR
Court Reporter

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1 P R O C E E D I N G S:

2 MR. KING: Good afternoon, and
3 welcome to our hearing of the federal
4 Telecommunications Act on schools and libraries'
5 universal service. My name is Steve King, I'm a
6 member of the staff of the Utilities and
7 Transportation Commission. And my job this
8 afternoon is to moderate this public meeting.

9 Before we get started, I'd like to make
10 some introductions and tell you a little bit about
11 how we hope to conduct this meeting. There are
12 several people from the Utilities Commission staff
13 and the commissioners themselves. I'd like to
14 introduce Chairman Sharon Nelson on my left and
15 your right.

16 CHAIRMAN NELSON: Good afternoon.

17 MR. KING: And Commissioner Dick
18 Hemstad.

19 MR. HEMSTAD: Hello, glad to see
20 you.

21 MR. KING: And Commissioner Bill
22 Gillis.

23 MR. GILLIS: Good afternoon.

24 MR. KING: On my right is Lee
25 Palagyi, who is the member of our staff who's

1 working on this issue. And in the audience from
2 our staff also we have Betty Rudolph and Terry
3 Winfield.

4 The purpose of the meeting today is to
5 share information about the issue of the
6 Telecommunications Act of 1996 and the schools and
7 libraries provisions as for those universal service
8 issues generally. We very much want to hear what
9 you have to say, we want to know what programs the
10 schools have in place already, what libraries are
11 doing, what concerns they have about the Act and
12 any ideas they have for us.

13 Our agenda this afternoon is pretty
14 simple. Chairman Nelson will make a couple remarks
15 and then Lee Palagyi will give a brief overview of
16 the issues that are before us and why they're
17 important, and then we will have the speakers in
18 the order in which they signed up.

19 Finally before we get going, I have a
20 few housekeeping items. For the speakers, I will
21 call your name when it's your turn to speak, and
22 I'll do that in the order you signed up. When you
23 come forward, please don't speak until you get to
24 the microphone, and then if you could state your
25 name and if you're representing any organizations,